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LIVESTOCK

SOME CONCLUSIONS OF FEED- ING EXPERIMENTS AT THE UTAH EXPERIMENT STATION.

1. Sugar beets and beet pulp for dairy cows are nearly equal in value.
2. Sugar beets and beet pulp had a value of from 90 cents to \$1.00 per ton.
3. Milk from beet and pulp-fed cows was a trifle higher in butter fat, the increased percentage being very small.
4. Milk flow and dairy yield of butter fat were maintained as well without beets and pulp as with them.
5. In feeding 1000-pound steers all the alfalfa and beet pulp they would take, larger and more economical gains were secured by adding 4 pounds grain to the ration per steer per day.
6. In a ration of alfalfa and pulp with steers, limiting the pulp one-fourth to one-half with all the alfalfa that they would take, increased the gains and reduced the cost of production.
7. In a ration of alfalfa and pulp with steers, limiting the alfalfa one-half, with all the pulp that they would take, increased the cost of production and decreased the gains.
8. In feeding 80-pound wether lambs all the alfalfa and pulp they would take, 1 pound of grain added to the ration per lamb per day, increased the gain and also the cost of production.
9. One-half pound of grain per lamb per day compared with 1 pound of grain gave lower gains and also lower cost of production.
10. One-half pound of grain per lamb per day, with all the alfalfa and pulp that the animal would take, compared with no grain, increased the cost of production but not the gain.
11. In a ration of alfalfa and pulp with lambs, limiting the pulp one-fourth to one-half with all the alfalfa that they would like, increased the gain and decreased the cost of production.
12. In a ration of alfalfa and pulp with lambs, limiting the alfalfa one-half, with all the pulp that they would take increased the gains and decreased the cost of production.
13. In feeding a ration of alfalfa

and beet pulp to sheep and steers better results were secured in every instance when either the alfalfa or the pulp was limited. Larger gains and cheaper production were secured when the pulp rather than the alfalfa was limited.

14. Sugar beets fed to steers with alfalfa and 4 pounds grain per head per day, had a value of \$2.36 per ton.
15. Sugar beets fed to eight months old lambs, with alfalfa and 5 pounds grain per head per day, had an average value of \$3.41 per ton.
16. Beet molasses fed to pigs, with green alfalfa, skim milk and shorts, had a value of \$1.12 per hundred.
17. Beet molasses fed to pigs, with shorts and beet pulp, had a value of 84 cents per hundred.
18. By substituting 1.1 pounds molasses for 1 pound shorts with pigs fed shorts and on alfalfa pasture, the consumption of the latter was increased, the daily gain per pig increased from .5 pound to .72 pound and the cost of production per hundred reduced from \$4.99 to \$3.18. By further adding 6 pounds skim milk per pig per day to the ration, the daily gain was increased to 1.13 pounds, and the cost of production per hundred reduced to \$2.78.
19. For swine, sugar beets had an average value of \$3.52 and pulp \$2.57 per ton.
20. As high as 20 pounds of pulp was fed to horses per animal per day without any apparent injury. In a ration of alfalfa hay and oats 9 pounds of well fermented solid pulp saved 1.5 pounds oats.
21. Pulp fed to sheep did not produce a weak bone.
22. In feeding dairy cows a basal ration of 4 pounds of grain ($\frac{1}{2}$ shorts, $\frac{1}{2}$ bran) and twelve pounds hay, 13 pounds good alfalfa hay fed along with it was nearly equal in value to 11 pounds of grain. Thirteen pounds of alfalfa, fed in connection with the basal ration, produced .6 pound of milk and .08 pound of butter fat per cow per day less than did 11 pounds grain when so fed, but the cost of 100 pounds of milk was reduced 30 cents and of butter fat 5.7 cents.
23. In feeding alfalfa to cows, milk and butter fat were produced cheaper on 4 pounds of grain per cow per day than on 8 pounds. The daily